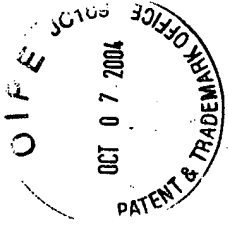


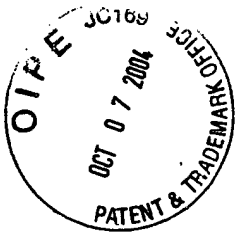
FIG. 1A-1
FIG. 1A-2

FIG. 1A

GAATTCCCCAACAGAGCCCAAGCTCTCCATCTAGTGGACAGGGAAGCTAGCAGCAACC	39 (UPPER: SEQ ID NO.: 1)
	19 (LOWER: SEQ ID NO.: 4)
TTCCCTTCACTACAAACTTCAATTGCTTGGCCAAAAGAGAGTTAATTCAATGTAGACAT	119
	39
CTATGTAGGCAATTAAAAACCTATTGATGTATATAAACAGTTTGCATTTCATGGAGGGCAAC	179
	59
TAAATACATTCTAGGACTTTATAAAGATCACTTTTATTATGCACAGGGTGAACAAG	239
	79
ATGGATTATCAAGTGTCAAGTCCAATCTATGACATCAATTATTATACATCGGAGCCCTGC	299
M D Y Q V S S P I Y D I N Y Y T S E P C	99

FIG. 1A-1





2/20

CAAAAATCAATGTGAAGCAAAATCGCAGCCGCCCTCCTGCTCCTCGCTCTACTCACTGGTG 359
Q K I N V K Q I A A R L L P P L Y S L V 119

TTCACTCTTTGGTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATAAACTGCAAAAGG 419
F I F G F V G N M L V I L I L I N C K R 139

CTGAAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTGTTTTCCTT 479
L K S M T D I Y L L N L A I S D L F F L 159

CTTACTGCCCCCTCTGGGCTCACTATGCTGCCGCCAGTGGGACTTTGGAAATACAATG 539
L T V P F W A H Y A A A Q W D F G N T M 179

TGTCAACTCTTGACAGGCTCTATTTTATAGGCTTCTCTCTGGAATCTTCTTCATCATC 599
C Q L L T G L Y F I G F F S G I F F I I 199

CTCCTGACAATCGATAGGTACCTGGCTGTGTCCTCATGCTGTGTTGCTTTAAAGCCAGG 659
L L T I D R Y L A V V H A V F A L K A R 219

ACGGTCACCTTTGGGGTGGTGACAAGTGTGATCACTTGGTGGTGGCTGTGTTGCGTCT 719
T V T F G V V T S V I T W V V A V F A S 239

CTCCCAGGAATCATCTTTACCAGATCTCAAAAAGAAGGTCTTCAATACACCTGCAGCTCT 779
L P G I I F T R S Q K E G L H Y T C S S 259

CATTTTCCATACA
H F P Y

FIG. 1A-2

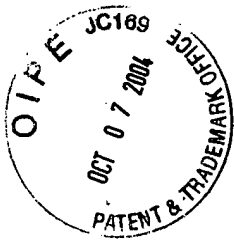


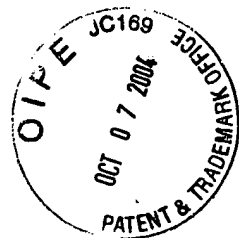
FIG. 1B-1
FIG. 1B-2

FIG. 1B

GAATTCCCCCAACAGAGCCAAAGCTCTCCATCTAGTGGACAGGAAGCTAGCAGCAAACC 59 (UPPER: SEQ ID NO.: 2)
TTCCCTTCACTACAAAACCTTCATGTGCTTGGCCAAAAGAGAGTTAATTCAATGTAGACAT 119
CTATGTAGGCAATTAAAAACCTATTGATGTATAAAACAGTTTGCATTTCATGGAGGGCAAC 39
TAAATACATTCTAGGACTTTATAAAAGATCACTTTTATTATGACAGGGTGGAACAAG 179
ATGGATTATCAAGTGTCAAGTCCCAATCTATGACATCAATTATTATACATCGGAGCCCTGC 59
M D Y Q V S S P I Y D I N Y Y T S E P C 239
99

3/20

FIG. 1B-1



4/20

CAAAAATCAATGTGAAGCAAATCGCAGCCGCTCCTGCCTCCGCTCTACTCACTGGTG 359
Q K I N V K Q I A A R L L P P L Y S L V 119
TTCATCTTTGGTTTGTGGCAACATGCTGGTCATCCTCATCCTGATAAACTGCAAAAGG 419
F I F G F V G N M L V I L I L I N C K R 139
CTGAAGAGCATGACATCTACCTGCTCAACCTGGCCATCTCTGACCTGTTTTCCTT 479
L K S M T D I Y L L N L A I S D L F F L 159
CTTACTGTCCCTTCTGGGCTCACTATGCTGCCGCCAGTGGGACTTTGGAAATACAATG 539
L T V P F W A H Y A A A Q W D F G N T M 179
TGTCAACTCTTGACAGGGCTCTATTTTATAGGCTTCTTCTGGAATCTTCTTCATCATC 599
C Q L L T G L Y F I G F F S G I F I I 199
CTCCTGACAATCGATAGTACCTGGCTGTGCTGCCATGCTGTGTTGCTTTAAAGCCAGG 659
L L T I D R Y L A V V H A V F A L K A R 219
ACGGTCACCTTTGGGGTGGTGACAAGTGTGATCACTTGGGTGGTGGTGTGTTGCGTCT 719
T V T F G V V T S V I T W V V A V F A S 239
CTCCCAGGAATCACTTTACCAGATCTCAAAAGAAGGCTTTCATTACACCTGCAGCTCT 779
L P G I I F T R S Q K E G L H Y T C S S 259
CATTTTCCATACAGTCAGTATCAATTCTGGAAGAATTTCCAGACATTAAGATAGTCATC 839
H F P Y S Q Y Q F W K N F Q T L K I V I 279

FIG. 1B-2

TTGGGCTGGTCTCTGCCGCTGCTTGTTCATGTCTATCTGTCTACTCGGAATCCTAAAACT	899
L G L V L P L L L V M V I C Y S G I L K T	299
CTGCTTCGGTGTCTGAAATGAGAAGAGGACAGGGCTGTGAGGCTTATCTTCACCATC	959
L L R C R N E K K R H R A V R L I F T I	319
ATGATTGTTTATTTCTCTCTCTGGCTCCCTACAACATTGTCTCTTCTCCTGAACACCTTC	1019
M I V Y F L F W A P Y N I V L L L N T F	339
CAGGAATCTTTGGCCTGAATAATTGCAGTAGCTCTAACAGGTGGACCAAGCTATGCAG	1079
Q E F F G L N N C S S S N R L D Q A M Q	359
GTGACAGAGACTCTTTGGGATGACGCACCTGCTGCATCAACCCCATCATCTATGCCCTTGTCT	1139
V T E T L G M T H C C I N P I I Y A F V	379
GGGGAGAAGTTCAGAACTACTCTTAGTCTTCTTCCAAAAGCACATTGCCAAACGCTTC	1199
G E K F R N Y L L V F F Q K H I A K R F	399
TGCAAATGCTGTCTATTTCAGCAAGAGGCTCCGAGCGAGCAAGCTCAGTTACACC	1259
C K C C S I F Q Q E A P E R A S S V Y T	419
CGATCCACTGGGGAGCAGGAATATCTGTGGGCTGTGACACGGACTCAAGTGGCTGGT	1319
R S T G E Q E I S V G L *	439
GACCCAGTCAGAGTGTGCACATGGCTTAGTTTTCATACACAGCCTGGGCTGGGGTNGG	1379
	459
TTGGNNGAGGTCTTTTTTAAAGGAAGTTACTGTATTAGAGGGTCTAAGATTTCATCCATT	1439
TATTTGGCATCTGTTTTAAAGTAGATTAGATCCGAATTC	479

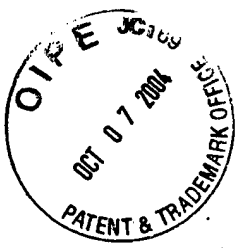
FIG. 1B-3

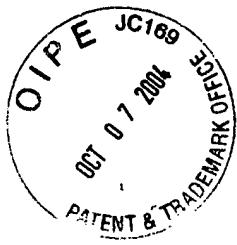
FIG. 1D-1
FIG. 1D-2

FIG. 1D

GAATTC	CCCAACAGAGCC	AAGCTCT	CCATCTAGTGGACAGGGAAGCTAGCAGCAAAACC	59 (UPPER: SEQ ID NO. 3)
				19 (LOWER: SEQ ID NO. 6)
TTCCCTT	CACTACAAA	ACTTCATTGCTTGGCCAA	AAAGAGAGTTAATTCAATGTAGACAT	119
				39
CTATGTAGGCAATTAA	AAACCTATTGATGTATAAA	CAGTTTGCAATTCATGGAGGGCAAC		179
				59
TAAATACATTCTAGGACTTTATA	AAAGATCACTTTTATTATGCACAGGGTGGAACAAG			239
				79
ATGGATTATCAAGTGTCAAGTCCAATCTATGACATCAATTATTATACATCGGAGCCCTGC				299
M D Y Q V S S P I Y D I N Y Y T S E P C				99

FIG. 1D-1





7/20

CAAAAATCAATGTGAAGCAAAATGCAGCCCGCTCCTGCCTCCGCTCTACTACTGGTG 359
Q K I N V K Q I A A R L L P P L Y S L V 119

TTTATCTTTGGTTTGTGGGCAACATGTGTGTCATCCTCATCCTGATAAACTGCCAAAAGG 419
F I F G F V G N M L V I L I L I N C K R 139

CTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTGTTTTCCTT 479
L K S M T D I Y L L N L A I S D L F F L 159

CTTACTGTCCCTTCTGGGCTCACTATGTCTGCCGCCAGTGGGACTTTGGAAATACAATG 539
L T V P F W A H Y A A A Q W D F G N T M 179

TGTCAACTCTTGACAGGGCTCTATTTTATAGGCTTCTCTGGAATCTTCTTCATCATC 599
C Q L L T G L Y F I G F F S G I F F I I 199

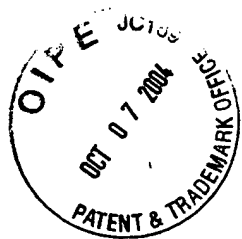
CTCCTGACAAATCGATAGGTACCTGGCTGTCGTCATGCTGTGTTGCTTTAAAGCCAGG 659
L L T I D R Y L A V V H A V F A L K A R 219

ACGGTCACCTTTGGGGTGGTGACAAGTGTGATCATTGGGTGGTGGCTGTGTTGGCTCT 719
T V T F G V V T S V I T W V V A V F A S 239

CTCCCAGGAATCATCTTTACCAGATCTCAAAAGAAGGTCTTTCATTACACCTGCAGCTCT 779
L P G I I F T R S Q K E G L H Y T C S S 259

CATTTCCATACATTAAAGATAGTCATCTTGGGGTGGTCCCTGCCGCTGCTGTGTCAATGG 839
H F P Y I K D S H L G A G P A A A C H G 279

FIG. 1D-2



8/20

CATCTGCTACTCGGGAATCCTAAAACTCTGCTTCGGTGTGCAATGAGAAGAAGAGGCA 899
H L L L G N P K N S A S V S K * 299
CAGGGCTGTGAGGCTTATCTTCACCATCATGATGTGTTAATTTCTCTTCCTGGGCTCCCTA 959
319
CAACATTGTCCCTTCTCCTGAACACCTTCCAGGAATTTCTTTGGCCTGAATAATTGCAGTAG 1019
339
CTCTAACAGGTTGGACCAAGCTATGCAGGTGACAGAGACTCTTGGGATGACGCACGTCTG 1079
359
CATCAACCCCATCATCTATGCCTTTGTGCGGGAGAAAGTTTCAGAACTACCTCTTAGTCTT 1139
379
CTTCCAAAAGCACATTGCCAAACCGCTTCTGCAAAATGCTGTCTATTTTCCAGCAAGAGGC 1199
399
TCCCCGAGGAGCAAGCTCAGTTTACACCCGATCCACTGGGGAGCAGGAAATATCTGTGGG 1259
419
CTTGTGACACGGACTCAAGTGGGCTGGTGACCCAGTCAGAGTTGTGCACATGGCTTAGTT 1319
439
TTCATACACAGCCCTGGGCTGGGGTNGGTTGGNNGAGGTCTTTTTTAAAGGAAGTTACT 1379
459
GTTATAGAGGGTCTAAGATTTCATCCATTATTTTGGCATCTGTGTTAAAGTAGATTAGATCC 1439
479
GAATTC

FIG. 1D-3

FIG. 2A
FIG. 2B

FIG. 2

CCR5	1	MDYQVSSP	YDINVTSEPCOK	INVKQIAARLL	PPLYSLVFI	FGVGNMLVIL	ILINCKRLK	SMTDIYLLNLA	ISDILFLIT	83
hCC-R2b	6	MLSTSRSR	FIRNTNESGEEVTTFFD	YDYGAPCHKEFDV	KQICAGLL	PPLYSLVFI	FGVGNMLVWL	ILINCKRLKCL	FDIYLLNLAISDILFLIT	95
hCC-R3		MTTSLD	TVETFGTTSYYDDVGL	CEKADTRALMAQFV	PPLYSLVFTVGLIGNV	VW				

III

IV

CCR5

hcc-R2b

hcc-R3

hcc-R1

hcc-R4

VPFWAHYA

ANQWDFGNMC

LLTGLYFI

GFSGIFFI

LLTIDRYLA

VH

AVFALKARTV

FGVVTSVITW

VAVFASLP

GIIFTR

SQKEGLH

177

LPLWAHSA

ANENWFGNMC

LLTGLYFI

GFSGIFFI

LLTIDRYLA

VH

AVFALKARTV

FGVVTSVITW

VAVFASLP

GIIFTR

SQKEGLH

189

LPFWHYYVR

GHNVFGHGM

ONLISSE

FYHTGLYSEI

FFIILLTIDRYLA

VH

AVFAIRARTV

FGVITSVITW

GLAVIALAL

PEFI

FYEELFEE

182

LPFWIDYKL

DWFGDAMCK

ILSSFYHTGLYSEI

FFIILLTIDRYLA

VH

AVFAIRARTV

FGVITSVITW

GLAVIALAL

PEFI

FYEELFEE

182

LPFWGNYA

ADQWFGGLG

CKMISW

MLVGFSGIFF

WMLMSIDRYLA

VH

AVFSIRARTV

FGVITSVITW

GLAVIALAL

PEFI

FYEELFEE

186

FIG. 2A

10/20

VI

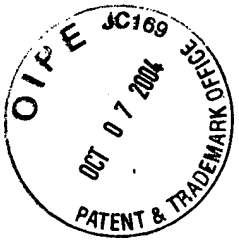
V

CCR5 YTCSSHFPPYSQYQFWKNFQTLKIV ILGLVPLLLVMVICYSGLKTLRCRNEKKRRRAVRLLFTIMIVYFLFMA PYNIVLLNTFQEFFGLNNC 272
hcc-R2b MCGPYFPRG... WNNFHTIMRNILGLVPLLLMVICYSGLKTLRCRNEKKRRRAVRLLFTIMIVYFLFMA PYNIVLLNTFQEFFGLNNC 280
hcc-R3 TLCSALYPEDTVYSRRHHTIRMTIFCLVPLLLVMVICYSGLKTLRCRNEKKRRRAVRLLFTIMIVYFLFMA PYNIVLLNTFQEFFGLNNC 276
hcc-R1 HTCSLHFPHESLREWKLFQALKLNLFGLVPLLLVMVICYSGLKTLRCRNEKKRRRAVRLLFTIMIVYFLFMA PYNIVLLNTFQEFFGLNNC 276
hcc-R4 TYCKTKYSLSNST.TWKVLSSSEINILGLVPLLLVMVICYSGLKTLRCRNEKKRRRAVRLLFTIMIVYFLFMA PYNIVLLNTFQEFFGLNNC 279

VII

CCR5 SSSNRLLDOAMQVTTETLGMTHCCINPIIYAFVGEKFRNLLVFFQKHIKR.FCKCCSIFQOEAPERASSVYTRSTGEQEHISVGL 352
hcc-R2b ESTSQLDQATQVTTETLGMTHCCINPIIYAFVGEKFRNLLVFFQKHIKR.FCKCCSIFQOEAPERASSVYTRSTGEQEHISVGL 360
hcc-R3 ERSKHLDMIVTEVIAYSCHCCMNPVIYAFVGEKFRNLLVFFQKHIKR.LGRIIPFLPSEKLENTSSV.SPSTAEPELSIVF 355
hcc-R1 EQSRHLDLAVQVTEVIAYTHCCWNPVIYAFVGEKFRNLLVFFQKHIKR.LGRIIPFLPSEKLENTSSV.SPSTAEPELSIVF 355
hcc-R4 TFERYLDVAVQVTEVIAYTHCCWNPVIYAFVGEKFRNLLVFFQKHIKR.LGRIIPFLPSEKLENTSSV.SPSTAEPELSIVF 360

FIG. 2B



11/20

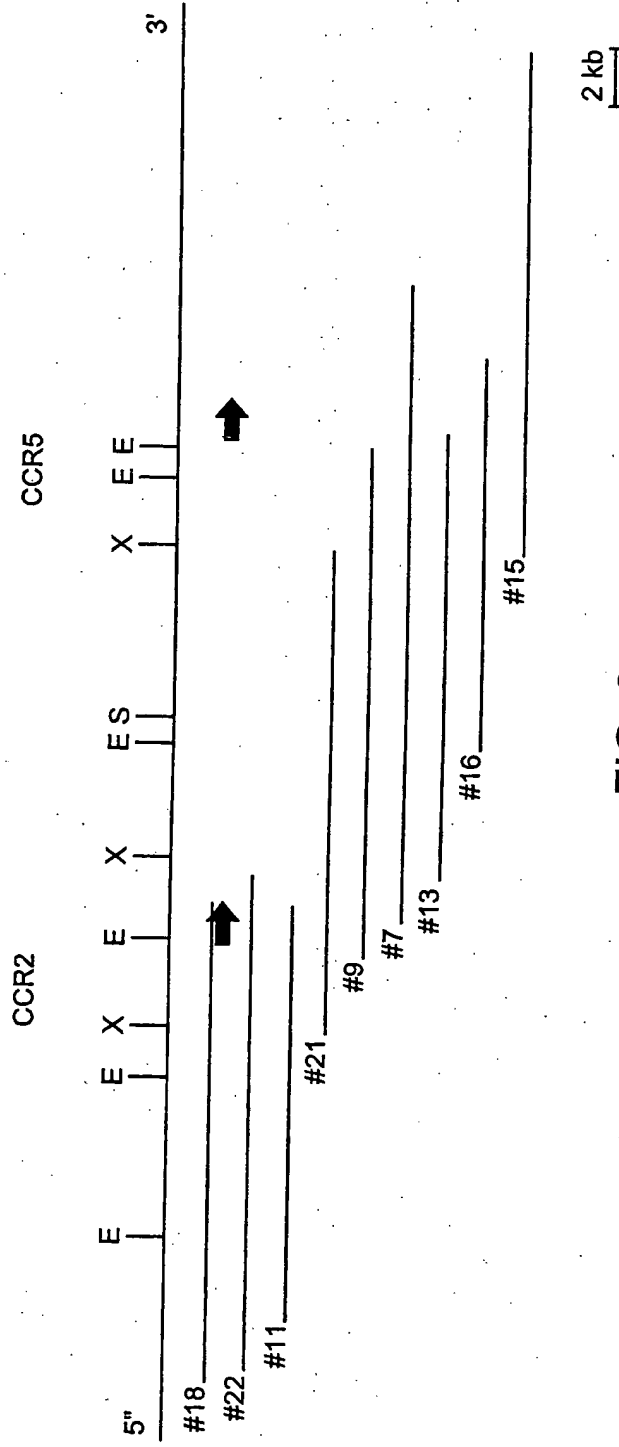


FIG. 3

12/20

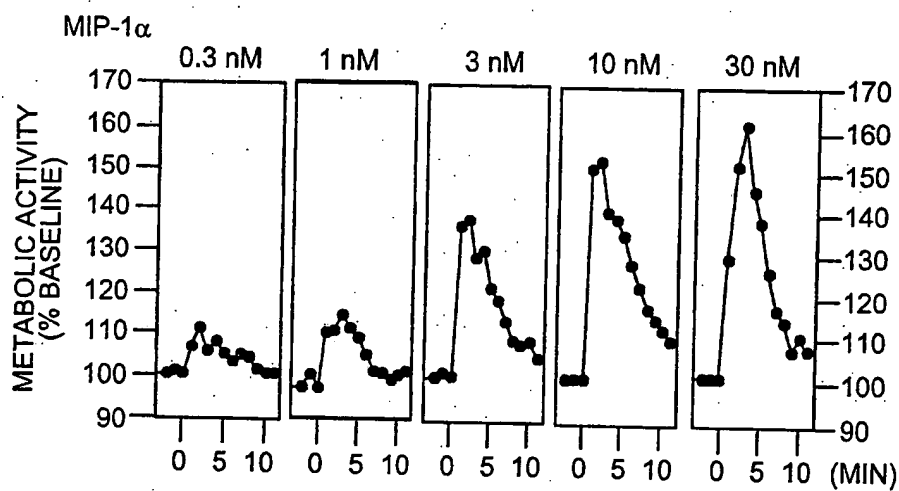


FIG. 4A

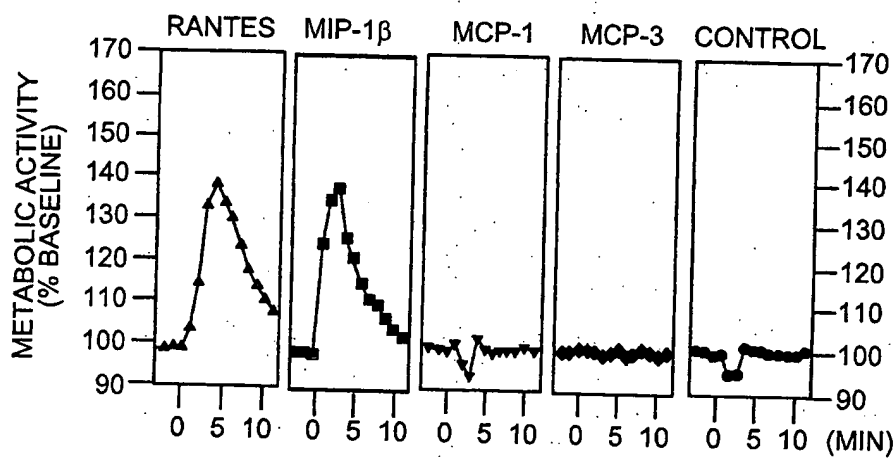


FIG. 4B

13/20

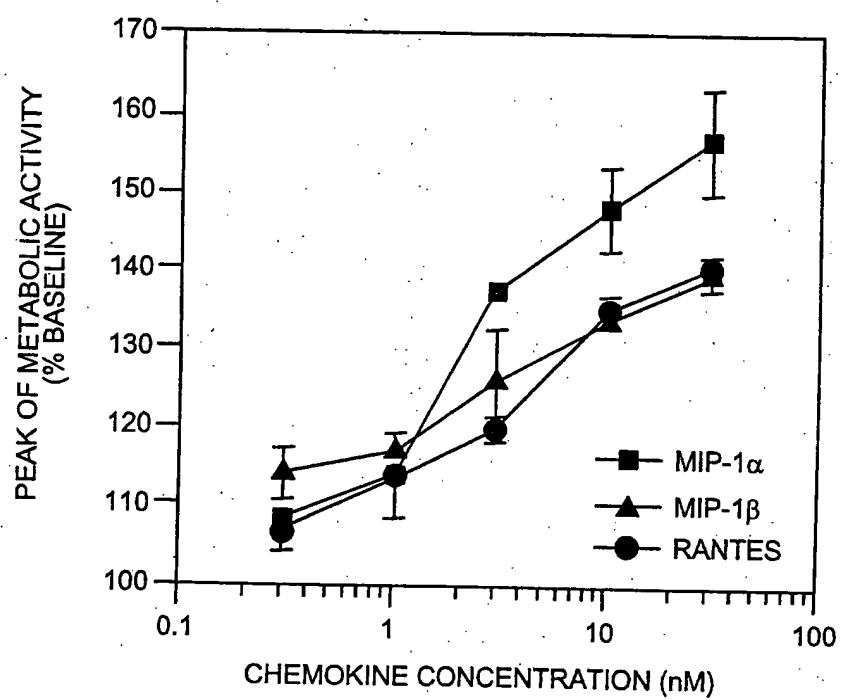


FIG. 4C

14/20

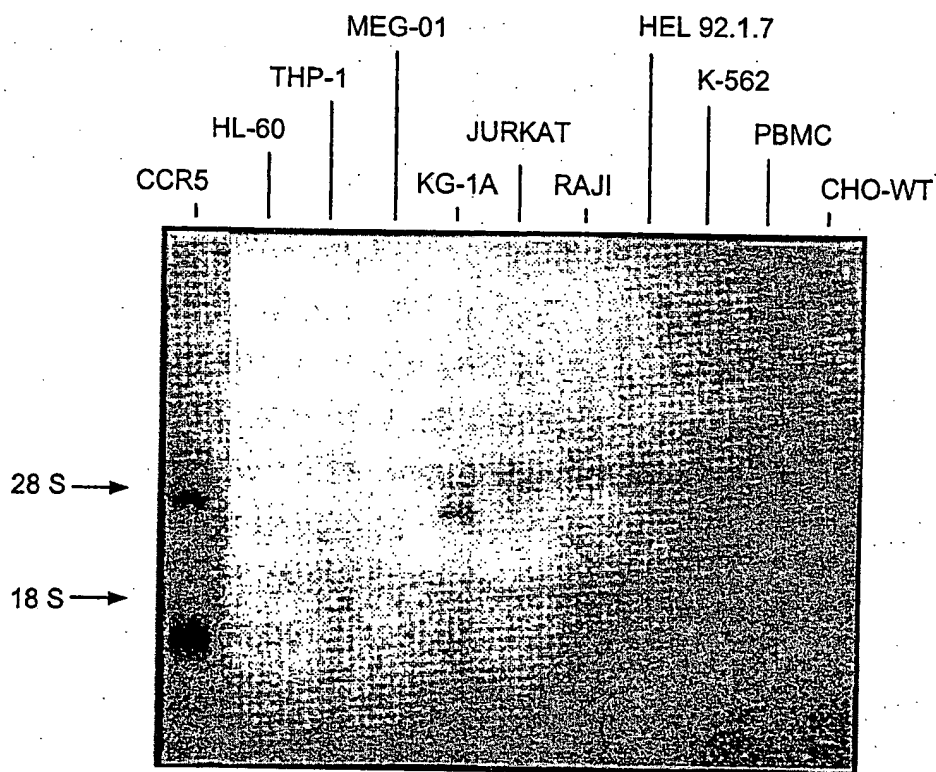


FIG. 5

FIG. 6A
FIG. 6B

FIG. 6

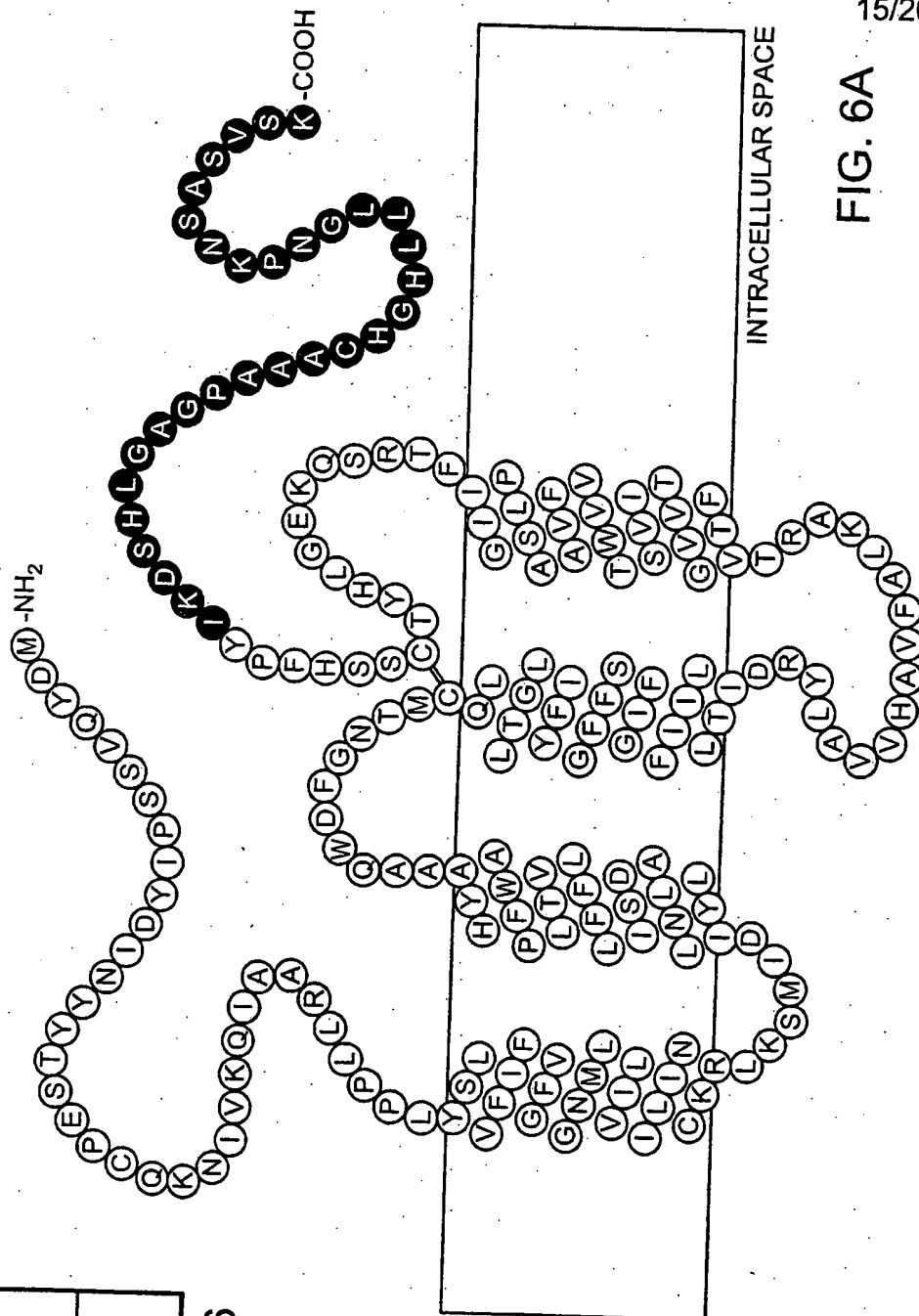


FIG. 6A

16/20

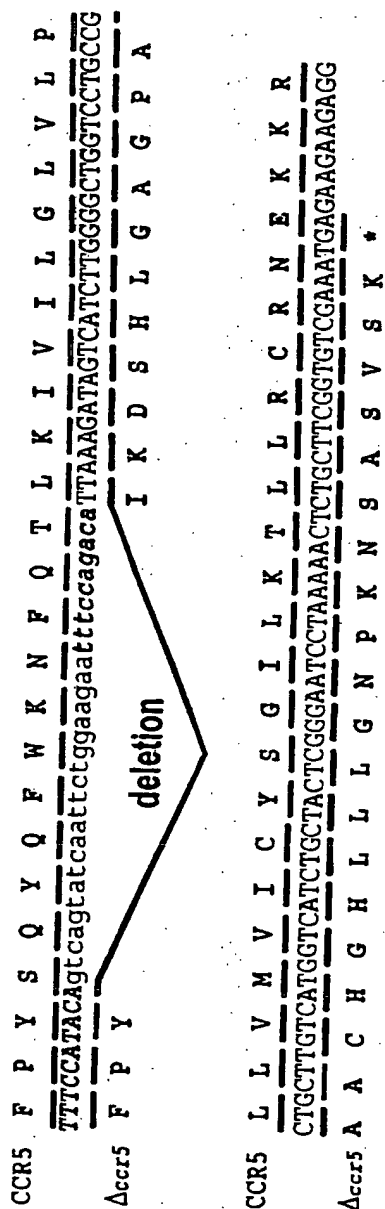


FIG. 6B

17/20

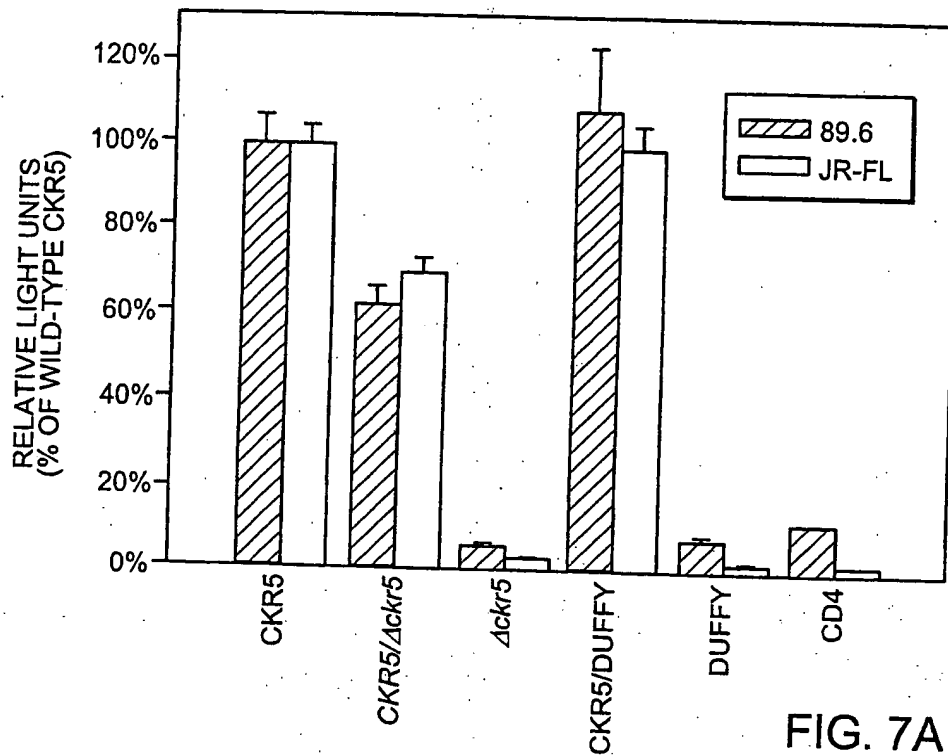


FIG. 7A

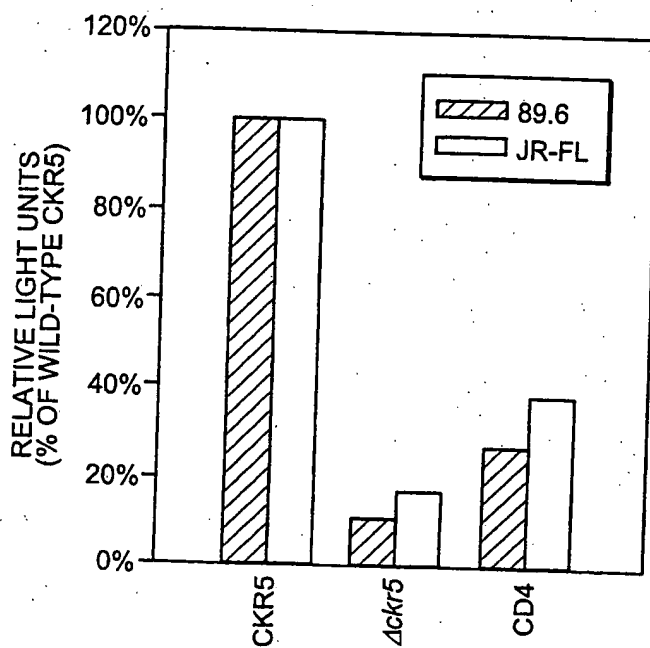


FIG. 7B

18/20

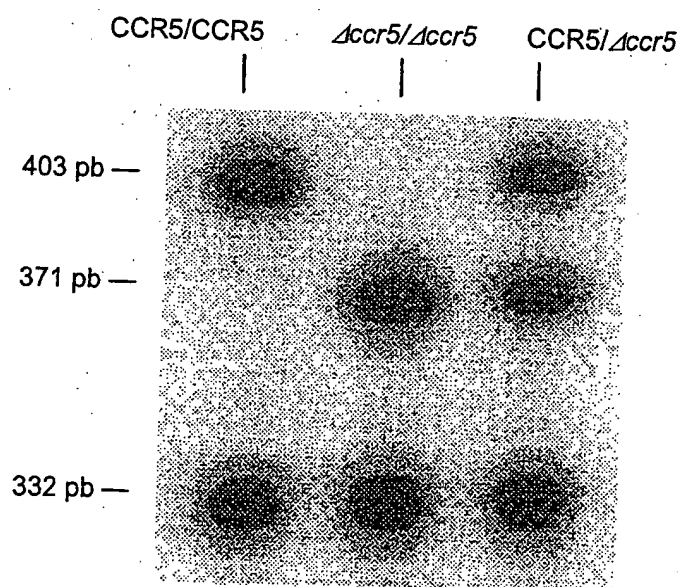


FIG. 8

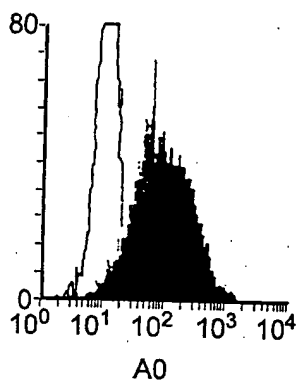


FIG. 9A

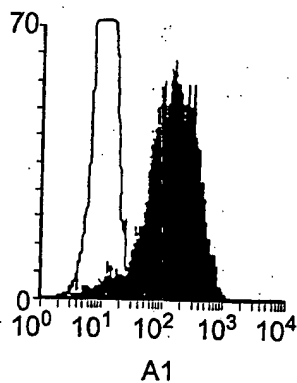


FIG. 9B

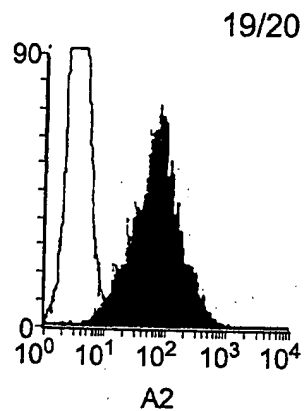


FIG. 9C

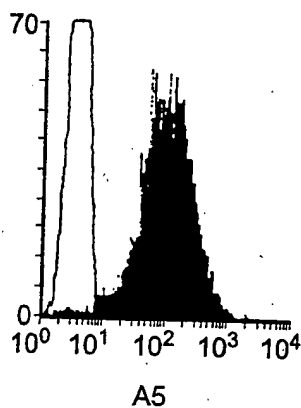


FIG. 9D

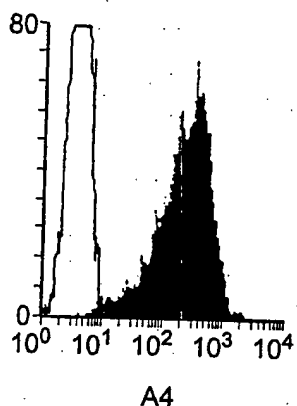


FIG. 9E

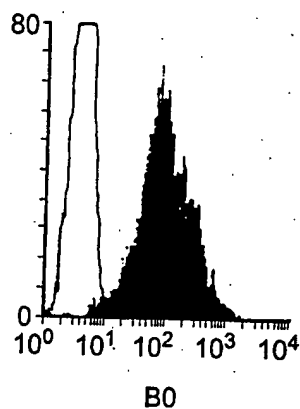


FIG. 9F

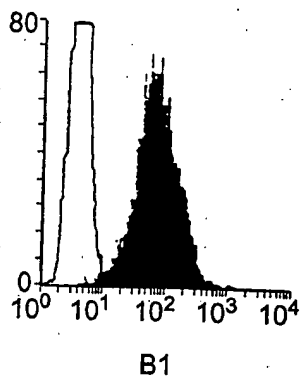


FIG. 9G

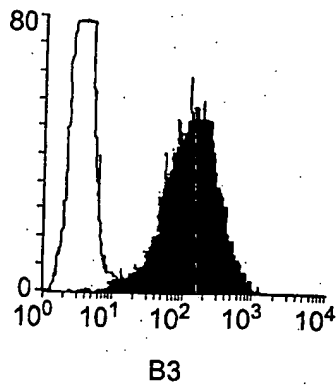


FIG. 9H

20/20

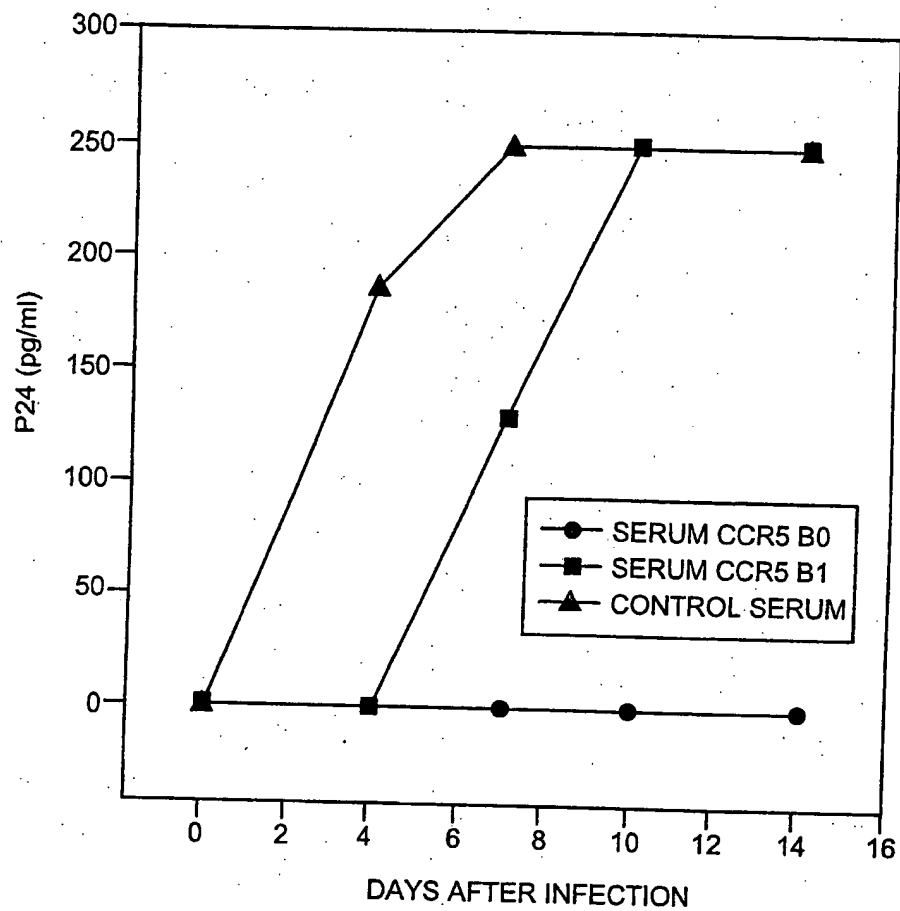


FIG. 10

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